



SUBSTITUTE SPECIFICATION WITH MARKINGS TO SHOW CHANGES MADE

5 **TITLE OF THE INVENTION:**

Nectarine Tree 'S 6816'

CROSS REFERENCE TO RELATED APPLICATIONS:

None

10

PRIORITY CLAIM:

This application claims priority of U.S. Provisional patent application Ser. No. 60/404,217 filed August 15, 2002.

15 **STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR
DEVELOPMENT:**

None

LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED:

20 *Prunus persica* L. Batsch.

VARIETY DENOMINATION:

'S 6816'

BACKGROUND OF THE INVENTION

The new nectarine tree 'S 6816' was developed by the Institut National de la Recherche Agronomique (INRA) at Angers, France, as part of a controlled breeding program. 'S 6816' was asexually propagated by budding at Angers, France, and has been observed to remain true to type
5 over successive asexually propagated generations.

BRIEF SUMMARY OF THE INVENTION

'S 6816' was selected for its suitability as a commercial nectarine tree cultivar. Fruit of the 'S 6816' cultivar matures in late July in central Washington state, and is notable for its
10 aromatic and sweet yellow flesh. This variety is distinguishable over related variety 'S 6817' (U.S. Patent Application Ser. No. 10/642,441) by its earlier maturity date and smaller and sweeter fruit.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS:

15 ~~The photograph shows the fruit of the new cultivar.~~
FIG. 1 shows branches and blossoms of the new cultivar;
FIG. 2 shows a tree of the new cultivar;
FIG. 3 shows leaves of the new cultivar;
FIG. 4 shows a leaf, a stone, and a portion of a fruit of the new cultivar;
20 FIG. 5 shows fruit of the new cultivar; and
FIG. 6 shows a sectioned fruit of the new cultivar.

DETAILED BOTANICAL DESCRIPTION OF THE VARIETY:

~~The new nectarine tree 'S 6816' was developed as part of a controlled breeding program. The new nectarine tree has been observed to remain true to type over successive asexually propagated generations.~~

- 5 The following is a detailed botanical description of 'S 6816,' a new and distinct nectarine tree, based on observations made during the 2004 growing season, of specimens planted at Parker, Washington, USA, in 1999. The described trees were grown on 'Lovell' (not patented) rootstock. All colors are described according to the Royal Horticultural Society Color Chart. It should be understood that the botanical and analytical characteristics described will vary somewhat depending upon cultural practices and climatic conditions, and can vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant, or any group of plants, of the new variety may vary from the stated average.
- 10

15 **Tree**

Size	Large, <u>width 2.2 m wide, height 3.4 m</u>
Vigor	Strong
Habit	Upright
<u>Trunk</u>	<u>Diameter 31 cm at soil level; very rough; overcolor grey</u>
20	<u>201D; undercolor grey 175A; lenticels prominent, 0.3 to 0.5 cm, yellow 159A</u>
<u>Branches</u>	<u>Smooth, greyed red 181A, internode length 3.1 to 3.8 cm,</u>

lateral branch diameter 1.8 cm, length 46.2 cm (previous
season growth)

Leaves

- Young shoot - length of stipule Medium
- 5 Length ————— Long
- Width ————— Medium
- Size ————— Length 10.5 cm; 4.0 cm
- Ratio length to width Medium
- Shape ————— Lanceolate, base rounded, apex acuminate, recurved, cross
- 10 section concave
- Shape in cross section ————— Concave
- Recurvature of apex ————— Present
- Angle at base ————— Acute
- Angle at apex ————— Large
- 15 Color ————— Upper surface green 146A, lower surface green N144A,
- upper venation color green 154D
- Texture ————— Smooth
- Margin ————— Serrate to serrulate

Petiole

- 20 Length ————— Short
- Size ————— Length 1.5 cm, diameter 0.2 cm
- Color ————— Green 154D

Nectaries ——— Present

Shape of nectaries ——— Reniform

Predominant number of nectaries — Two

Glands ——— Present, usually 2, reniform

5 **Flowers**

Bud ——— Length 0.9 to 1.1 cm, round, smooth, hardy, red-purple 59A,
tip pink 62A

Bud burst ——— March 18 at Parker, Washington

Bloom period ——— March 18 to April 7 at Parker, Washington

10 Flower type ——— Showy, fragrant, 1 to 4 per cluster

Petals ——— Quantity 5; length 1.8 to 2.1 cm, width 1.3 to 1.5 cm;
margins ruffled, overlapping; shape obovate to rotund;
color pink 69A

Sepals ——— Length 0.5 to 0.6 cm; width 0.4 to 0.5 cm; color red-purple
59A

15 Flower size ——— Diameter 3.5 to 3.7 cm

Reproductive organs ——— Staymen white 155D, quantity 39, length 1.0 to 1.3 cm;
anther length 0.5 cm, brown 199A; filament 0.9 to 1.2 cm;
pistil 0.9 to 1.0 cm, smooth, yellow 3A

20 Pollen ——— Scarce, yellow 1A

Fruit

Size ——— Small, diameter 70 mm, height 4.0 cm

	Shape (ventral view)	Broad oblate
	Shape of pistil end	Weakly depressed
	Symmetry	Symmetric
	Prominence of suture	Weak
5	Depth of stalk cavity	Shallow, <u>0.5 cm</u>
	Width of stalk cavity	Broad, <u>2.8 cm</u>
	Skin	Color: ground color orange-red 34C, over color red-purple <u>59A; thin, smooth, tenacious</u>
	Ground color	Orange yellow
10	Over color	Present
	Hue of over color	Medium red
	Pattern of over color	Solid flush
	Extent of over color	Large
	Pubescence	Absent
15	Thickness of skin	Medium
	Adherence of skin to flesh	Strong
	Firmness of flesh	Soft
	Ground color of flesh	Orange yellow <u>Yellow-orange 17C</u>
	Anthocyanin coloration directly under skin	Absent or very weakly expressed
20	Anthocyanin coloration of flesh	Absent or very weakly expressed
	Anthocyanin coloration around stone	Absent or very weakly expressed
	Texture of flesh	Not fibrous

Sweetness ~~High~~ Very sweet, 12° Brix

Acidity Low

Stone

Size Small, diameter 3.0 cm

5 Shape in lateral view Oblate

~~Intensity of brown color~~ Medium

Color Red-purple 59C

Relief of surface Small pits, ridges

Tendency of splitting at peak harvest Absent or very low

10 Adherence to flesh Absent (freestone)

Time of maturity for consumption Early, late July in Parker, Washington

Tendency to preharvest drop Absent or very weak

Resistance to diseases and pests None observed

Heat and cold tolerance Tolerant in area tested (USDA Zone 6)

ABSTRACT

A new cultivar of nectarine tree (*Prunus persica* L. Batsch) named 'S 6816' is disclosed.
The fruit of 'S 6816' is oblate, yellow fleshed, and freestone, and is notable for its early maturity and very sweet flavor.

CLAIM

We claim:

A new and distinct nectarine tree, substantially as shown and described herein.